# BRUHAT BANGALORE MAHANAGARA PALIKE

## PWD FORM - 45 (WORK SLIP)

**Name of Work: Modified Estimate for the work: Improvements to roads and drains in LNT COMPOUND ROAD to byatarayanapura in ward No.07, Byatarayanapura**

**Name of Agency:M/S KRIDL**

**Estimated Cost: 50,00,000.00**

**D.R. No.**

**Tender Amount : Rs. 4535481.33**

**Work Order No. BBMP/EE/BTP/WO/57/2015-16 Dated: 06.05.2017**

| SL. No. | Description | Unit | Qty. as per Sanctioned Estimate | | | Qty. as per work oder | | | Qty. as per Execution | | | Excess | | Saving | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty. | Rate | Amount | Qty. | Rate | Amount | Qty. | Rate | Amount | Qty. | Amount | Qty | Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1 | Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications | cum | 473.93 | 86.92 | **41194.00** | 473.925 | 86.92 | **41194.00** | 425.78 | 86.92 | **37008.36** | 0.00 | 0.00 | 48.15 | 4185.64 |
| 2 | Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. | sqm | 404.25 | 665.68 | **269102.00** | 404.25 | 665.68 | **269102.00** | 0.00 | 665.68 | **0.00** | 0.00 | 0.00 | 404.25 | 269102.00 |
| 3 | Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification | cum | 21.94 | 5159.02 | **113177.00** | 21.94 | 5159.02 | **113177.00** | 21.94 | 5159.02 | **113177.00** | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications | tonne | 22.82 | 59413.00 | 1355508.00 | 22.82 | 59413.00 | 1355508.00 | 22.82 | 59413.00 | 1355508.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge | sqm | 468.00 | 387.96 | 181566.00 | 468 | 387.96 | 181566.00 | 468.00 | 387.96 | 181566.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls( anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. | cum | 45.63 | 6371.66 | **290739.00** | 45.63 | 6371.66 | **290739.00** | 45.63 | 6371.66 | **290739.00** | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications | cum | 5.40 | 5767.46 | **31145.00** | 5.4 | 5767.46 | **31145.00** | 5.40 | 5767.46 | **31145.00** | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications | sqm | 525.00 | 1836.00 | **963900.00** | 525 | 1836.00 | **963900.00** | 529.50 | 1836.00 | **972162.00** | 4.50 | 8262.00 | 0.00 | 0.00 |
| 9 | Providing and constructing pre cast concrete solid blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quoins, jamb,closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials,labour charges,scaffolding,curing etc., complete as per superstructure | sqm | 60.00 | 993.22 | **59594.00** | 60 | 993.22 | **59594.00** | 60.00 | 993.22 | **59594.00** | 0.00 | 0.00 | 0.00 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. | cum | 154.50 | 1801.44 | **278323.00** | 154.5 | 1801.44 | **278323.00** | 185.00 | 1801.44 | **333267.00** | 30.50 | 54944.00 | 0.00 | 0.00 |
| 11 | Providing and applying primer coat with S.S Bitumen emulsion on prepared surfaces of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.6okg/sqm using mechanical means complete as per specifications | sqm | 300.00 | 28.08 | **8424.00** | 300 | 28.08 | **8424.00** | 450.00 | 28.08 | **12636.00** | 150.00 | 4212.00 | 0.00 | 0.00 |
| 12 | Providing and laying bituminous macadam on prepared surface with crushed aggregates as per design mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant, rasnsporting the mixed material | cum | 15.00 | 5223.96 | **78360.00** | 15 | 5223.96 | **78360.00** | 23.25 | 5223.96 | **121458.00** | 8.25 | 43098.00 | 0.00 | 0.00 |
| 13 | Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materails, labour, HOM Machineries complete as per specifications | sqm | 1688.00 | 3.18 | **5368.00** | 1688 | 3.18 | **5368.00** | 2140.00 | 3.18 | **6806.00** | 452.00 | 1438.00 | 0.00 | 0.00 |
| 14 | Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7) | sqm | 2532.00 | 11.66 | **29524.00** | 2532 | 11.66 | **29524.00** | 3210.00 | 11.66 | **37429.00** | 678.00 | 7905.00 | 0.00 | 0.00 |
| 15 | Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, transporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic) | cum | 107.28 | 7302.34 | **783396.00** | 107.28 | 7302.34 | **783396.00** | 128.40 | 7302.34 | **937621.00** | 21.12 | 154225.00 | 0.00 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification | cum | 465.00 | 106.00 | 49290.00 | 465 | 106.00 | 49290.00 | 425.78 | 106.00 | 45133.00 | 0.00 | 0.00 | 39.23 | 4157.00 |
| | Total | | | | 4538610.00 | | | 4538610.00 | | | 4535249.36 | | 274084.00 | | 277444.64 |

SUMMARY:

1 Estimated Cost : Rs. 50.00 Lakhs

2 work order Cost : Rs.4538610.00

3 EIRL Amount Rs. 0.00 of the work order Amount

4 Work Slip Amount Rs. 274084.00 of the work order Amount

5 During execution as per requirement and site condition, the total Qty to be executed costs Rs.4535249.36 Lakhs which is Below the work order cost. The proposal may kindly be approved.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division, Bangalore

"Work-Slip Approved"

27.01.18